CLAIM AMENDMENTS:

1-9 cancelled

10. (new) A system for osteosynthesis, the system comprising:

a cervical vertebra plate having at least two receiving openings for screw heads of bone screws to secure said cervical vertebra plate to two cervical vertebrae, wherein said receiving openings have a first fluting, disposed about a periphery of a distal area, wherein a depth of said first fluting increases from a proximal towards a distal side of said openings; and
a bone screw having a screw head and a threaded screw shank, wherein a outer periphery of said screw head has a second fluting having a varying depth along a length thereof, wherein said screw head is substantially spherical and said second fluting has a depth which increases from each pole towards an equator of said screw head.

11. (new) The system of claim 10, wherein said first and said second fluting extend in a longitudinal direction.

12. (new) The system of claim 10, wherein said receiving openings widen in a distal direction.

13. (new) The system of claim 12, wherein said openings widen in a conical or dome-shaped fashion.

14. (new) The system of claim 10, wherein said first and said second flutings are wedge-shaped.

15. (new) The system of claim 10, wherein said plate has four receiving openings which are located in corner areas of said plate.

16. (new) The system of claim 15, wherein said plate has a further receiving opening disposed in a center of said plate.

17. (new) The system of claim 10, wherein said first fluting is formed by wedge-shaped grooves which extend in a substantially longitudinal direction, individual grooves having a mutual separation bordering groove-free regions.

18. (new) The system of claim 10, wherein said second fluting is formed by wedge-shaped grooves which extend substantially in a longitudinal direction, with individual grooves being separated from each other.

19. (new) The system of claim 10, wherein, viewed in a peripheral direction, areas without grooves are disposed between grooves of said first and said second fluting.

20. (new) The system of claim 19, wherein, viewed in a peripheral direction, a length of said area without grooves is between 0.3 and 2.0 or between 0.5 to 1.0 times a length of said groove.

21. (new) The system of claim 10, wherein said first and said second fluting are structured and dimensioned to cooperate with another to allow said bone screw to be screwed into the cervical vertebra and, following completion of a screwing procedure, to block rotation which would loosen said bone screw.